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**ABSTRACT OF THE DISCLOSURE**

A method for shielding the magnetic field generated by an electrical power transmission line and an electrical power transmission line so shielded. The electrical power transmission line has at least one electrical cable and at least one shielding element made of ferromagnetic material arranged in a radially outer position with respect to the at least one cable which shielding element has a base and a cover. The line also has a supporting element coupled to at least the base of the shielding element. In particular, the ferromagnetic material of the shielding element is selected from grain oriented silicon steel, preferably containing a silicon content between about 1% and about 5%, non-grain oriented silicon steel, Permalloyè and Supermalloyè.